

Title (en)
REAL-TIME MONITORING OF HYDROCARBON PRODUCTIONS

Title (de)
ECHTZEITÜBERWACHUNG VON KOHLENWASSERSTOFFPRODUKTIONEN

Title (fr)
SURVEILLANCE EN TEMPS RÉEL DE PRODUCTION D'HYDROCARBURES

Publication
EP 3735513 A1 20201111 (EN)

Application
EP 18842614 A 20181221

Priority

- US 201815861400 A 20180103
- US 2018067038 W 20181221

Abstract (en)
[origin: US2019203581A1] A method includes obtaining a sample of a fluid from a subterranean zone while the fluid is being extracted from the zone. A chemical composition of the sample is measured. A temperature and a pressure of the subterranean zone are measured. The measured properties are associated with a time point. The measured properties are incorporated into a set of historical data. A chemical composition of a fluid to be extracted from the subterranean zone at a future time point is determined based on the set of historical data. A presence of a liquid phase in the fluid to be extracted from the subterranean zone at the future time point is determined. A flow rate of the fluid being extracted from the subterranean zone is adjusted in response to determining the presence of the liquid phase in the fluid to be extracted from the subterranean zone at the future time point.

IPC 8 full level
E21B 49/08 (2006.01); **E21B 43/12** (2006.01); **E21B 43/16** (2006.01)

CPC (source: EP US)
E21B 43/16 (2013.01 - EP US); **E21B 47/06** (2013.01 - US); **E21B 49/08** (2013.01 - EP US); **E21B 49/0875** (2020.05 - EP); **E21B 49/088** (2013.01 - US); **E21B 49/0875** (2020.05 - US); **E21B 2200/22** (2020.05 - EP US); **G01N 30/7206** (2013.01 - US); **G01N 2030/025** (2013.01 - US); **G05B 13/04** (2013.01 - US)

Citation (search report)
See references of WO 2019135944A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
US 10941645 B2 20210309; **US 2019203581 A1 20190704**; CA 3088879 A1 20190711; CN 111727300 A 20200929; EP 3735513 A1 20201111; SA 520412377 B1 20220824; US 10975685 B2 20210413; US 2019338634 A1 20191107; WO 2019135944 A1 20190711

DOCDB simple family (application)
US 201815861400 A 20180103; CA 3088879 A 20181221; CN 201880089714 A 20181221; EP 18842614 A 20181221; SA 520412377 A 20200702; US 2018067038 W 20181221; US 201916517025 A 20190719